CLAIMS

What	is	claimed	is:	
------	----	---------	-----	--

2

1	1.	An optical transmission apparatus
2		having a plurality of ports for transmitting and/or receiving one or more signals
3		substantially as defined at IEEE 1394;
4		at least one of the ports being for transmitting and/or receiving one or more optical
5		signals; and
6		signal transmission protocol conversion being carried out at the physical-layer level
7		on at least one of the signals transmitted and/or received by at least one of the ports;
8		wherein the optical transmission apparatus comprises one or more bus management
9		means for co-managing one or more signal buses respectively connected externally to at
10		least a portion of the ports.
1	2.	An optical transmission apparatus according to claim 1 further comprising
2		one or more application-level protocol conversion means for carrying out signal
3		transmission protocol conversion at the application level.
1	3.	An optical transmission apparatus according to claim 2 wherein
2		at least one of the application-level protocol conversion means carries out conversion
3		between or among one or more DV-format signal transmission protocols and one or
4		more MPEG-2TS-format signal transmission protocols.
1	4.	An optical transmission apparatus according to claim 2 wherein
2		at least one of the application-level protocol conversion means carries out conversion
3		between or among one or more 1-bit audio signal transmission protocols and one or more
4		multi-bit audio signal transmission protocols.
1	5.	An optical transmission apparatus according to claim 4 wherein
2		at least one of the multi-bit audio signal transmission protocol or protocols is
3		substantially as defined at IEC 60958.
1	6.	An optical transmission apparatus according to claim 4 wherein
2		at least one of the multi-bit audio signal transmission protocol or protocols is

substantially as defined at MPEG Audio Layer-3.

- 7. An optical transmission apparatus according to claim 2 wherein
 one or more of the application-level protocol conversion means take the form of one
- 3 or more replaceable modules.
- 1 8. Electronic equipment comprising one or more optical transmission apparatuses
- 2 according to any of claims 1 through 7.